

HOW YOUR BRAIN UNDERSTANDS WHAT YOUR EAR HEARS**New York State Science Core Subject Learning Standards: Intermediate Level**

Lesson	Standard	Description
3, 4	4	(Physical setting) Describe the sources and identify the transformations of energy observed in everyday life.
1, 3, 4, 5	4	(PS) Observe and describe the properties of sound.
4	1	(Living Environment) Explain the functioning of the major human organ systems and their interactions.
3, 4, 5	3	(LE) Describe sources of variation in organism and their structures and relate the variations to survival.
1, 4	5	(LE) Compare the way a variety of living specimens carry out basic life functions and maintain dynamic equilibrium.
3, 4, 5	7	(LE) Describe the effects of environmental changes on humans and other populations.

New York State English Language Core Subject Learning Standards: Intermediate Level

All lessons	1	Relate new information to prior knowledge and experience.
All lessons	1	Make distinctions about the relative value and significance of specific data, facts, and ideas.
All lessons	3	Analyze, interpret, and evaluate ideas, information, organization, organization, and language from academic and nonacademic texts.
3, 4, 5	3	Develop arguments with effective use of details and evidence that reflect a coherent set of criteria.

New York State Mathematics Core Subject Learning Standards: Intermediate Level

All lessons	1	Apply a variety of reasoning strategies.
All lessons	1	Make conclusions based on inductive reasoning.
3	2	Understand, represent, and use numbers in a variety of equivalent forms (integer, fraction, decimal, percent, exponential, expanded and scientific notation).
3, 4	2	Understand and apply ratios, proportions, and percents through a wide variety of hands-on explorations.
3	3	Add, subtract, multiply, and divide fractions, decimals, and integers.

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3, 5	4	Represent numerical relationships in one- and two-dimensional graphs.
3, 5	6	Use simulation techniques to estimate probabilities.
New York State Interdisciplinary Problem Solving Learning Standards: Intermediate Level		
5	1	Analyze science/technology/society problems and issues that affect home, school, or community, and carry out a remedial course of action.
1, 3, 4, 5	1	Observe phenomena and evaluate them scientifically and mathematically by conducting a fair test of the effect of variables and using mathematical knowledge and technological tools to collect, analyze, and present data and conclusions.
New York State Health Core Subject Learning Standards: Intermediate Level		
5	1	Apply prevention and risk reduction strategies to adolescent health problems.
5	1	Demonstrate the necessary knowledge and skills to promote healthy adolescent development.
5	1	Analyze the multiple influences which affect health decisions and behaviors.
5	2	Demonstrate personal and social skills which enhance personal health and safety.
5	2	Understand the need for personal involvement in improving the environment.
New York State Interconnectedness: Common Themes Learning Standards: Intermediate Level		
3, 4, 5	2	Use models to study processes that cannot be studied directly.
3, 5	2	Demonstrate the effectiveness of different models to represent the same thing and the same model to represent different things.
3, 5	5	Use simple linear equations to represent how a parameter changes with time.